

FOOTED" 02650350

FIG. 1A-1

Murine	TREX	1	MTGYTMLRNGGVENGQTCLMWSNRIRLTWLSFTLF	ILVFFPLIAHYLTTLDEADEA
Human	TREX	1	MTGYTMLRNGGAGNGGQTCLMWSNRIRLTWLSFTLF	ILVFFPLIAHYLTTLDEADEA
Murine	TREX	61	GKRIFGPRA[SE]LCEVKHVLDLCRIR[SE]SVSEELLQLEAKRQELN[SE]IAKLNK[SE]EACKKS	
Human	TREX	61	GKRIFGP[RV]G[NE]LCEVKHVLDLCRIR[SE]SVSEELLQLEAKRQELN[SE]IAKLNK[SE]EACKKS	
Murine	TREX	121	ENAKQD[IL]QLKNV[IS]QTEHSYKELMAQNQPKLSLP	IRLLPEKDDAGLPPPKVTRGCR LH
Human	TREX	121	ENAKQD[IL]QLKNV[IS]QTEHSYKELMAQNQPKLSLP	IRLLPEKDDAGLPPPKVTRGCR LH
Murine	TREX	181	NCFDYSRCPLTSGFPVYVDS[Q]FAGSYLDPLVKQAFQAT[RV]RANVYVTENAD[IA]CLYV	
Human	TREX	181	NCFDYSRCPLTSGFPVYVDS[Q]FAGSYLDPLVKQAFQAT[RV]RANVYVTENAD[IA]CLYV	
Murine	TREX	241	LVGEMQEP[IV]LRPAD[LE]KQLFSLPHWRTDGHNHVI	INLSRKSDTQNLLYNVSTGRH-VAQ
Human	TREX	241	LVGEMQEP[IV]LRPA[LE]KQLFSLPHWRTDGHNHVI	INLSRKSDTQNLLYNVSTGRAMVAQ
Murine	TREX	300	STL[AA]QYRAGFDLVVSPLVHAMSEPNFMEI	PPQVPVKRKYLFTFQGEKIESLRSSLQEA
Human	TREX	301	STFY[TV]QYRPGFDLVVSPLVHAMSEPNFMEI	PPQVPVKRKYLFTFQGEKIESLRSSLQEA
Murine	TREX	360	RSFEEEMEGDPPADYDDR	IIATLKAQVDSKLDQVLVEFTCKNQPKPSLPTEWALCGERED
Human	TREX	361	RSFEEEMEGDPPADYDDR	IIATLKAQVDSKLDQVLVEFTCKNQPKPSLPTEWALCGERED
Murine	TREX	420	RLELLKLSTFALIITPGDPR[IL]SSGCATRLFEALEVGAVPVVLGEQVQLPY	QDMLQWNE
Human	TREX	421	RLELLKLSTFALIITPGDPR[IL]SSGCATRLFEALEVGAVPVVLGEQVQLPY	QDMLQWNE
Murine	TREX	460	AALVVPKPRVTEVHFLLRSLSDSLLAMRRQGRFLWET	YFSTADSI FNTVLA MIRTRI QI
Human	TREX	481	AALVVPKPRVTEVHFLLRSLSDSLLAMRRQGRFLWET	YFSTADSI FNTVLA MIRTRI QI

FOOTED " 02660360

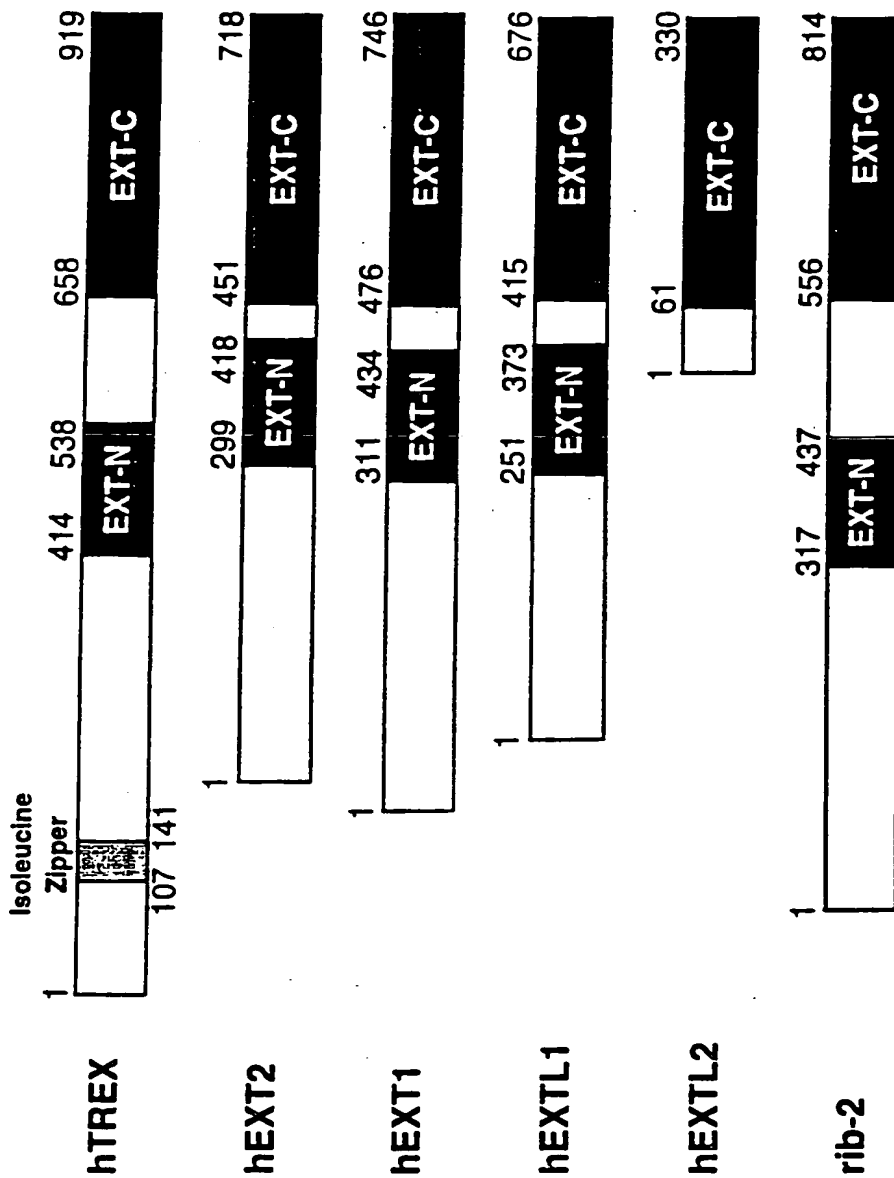
2/35

FIG. 1A-2

Murine	TREX	540	PAAPIREEVAAEIPHRSGKAAGTDPNMADNGDLDLGPVETETEPYASPKYLRNFTLTVTDC
Human	TREX	541	PAAPIREEAAAEIPHRSGKAAGTDPNMADNGDLDLGPVETETEPYASPKYLRNFTLTVTDF
Murine	TREX	600	YRGWNSAPGRFHLFPHTPDPVLPSEAKFLGSGTGFRPIGGAGGSGKEFQAALGGNVQR
Human	TREX	601	YRSWNCAPGRFHLFPHTPDPVLPSEAKFLGSGTGFRPIGGAGGSGKEFQAALGGNVPR
Murine	TREX	660	EQFTVVMLTYEREVLMNSLERLNGLPYLKVVVVWNSPKLPSEDLLWPDIGVPIMVVRT
Human	TREX	661	EQFTVVMLTYEREVLMNSLERLNGLPYLKVVVVWNSPKLPSEDLLWPDIGVPIMVVRT
Murine	TREX	720	EKNSLNNRFLPWNEIETEAILSIDDDAHLRHDEIMFGFVWREARDRIVGFPGRYHAWDI
Human	TREX	721	EKNSLNNRFLPWNEIETEAILSIDDDAHLRHDEIMFGFVWREARDRIVGFPGRYHAWDI
Murine	TREX	780	PHQSWLYNSNYSCELSMVLTGAAFFHKYAYLYSYVMPQAIKRDVDEYINCEDIAMNFLV
Human	TREX	781	PHQSWLYNSNYSCELSMVLTGAAFFHKYAYLYSYVMPQAIKRDVDEYINCEDIAMNFLV
Murine	TREX	840	SHITRKPPPIKVTSRWTFRCPCQALSHDDSHFHERHKCINFFVKVGYGMPPLLYTQFRVD
Human	TREX	841	SHITRKPPPIKVTSRWTFRCPCQALSHDDSHFHERHKCINFFVKVGYGMPPLLYTQFRVD
Murine	TREX	900	SVLFKTRLPDHDKTKCFKI
Human	TREX	901	SVLFKTRLPDHDKTKCFKI

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FIG. 1B



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FIG. 1C

hTREX	414	LQGE-----REDRLKLSHAIITPGDPRIVSSQCATRLEFEAEVGAIVVLGEQVQLRYQDMLO
hEXT2	299	RCHK-----HQVFYPQVLEATEGVVL--RGARI-----GQA-VLSDVLOAGCVPWVIADSYILPFSEVLD
hEXT1	311	RGDRDNTYEKYDYREMTHNATFGHVP--RGRR-----GSF--RFIEALQAACTVPMISNGWELPFSEVIN
hEXTL1	251	RGEQDPGPGQT-QROETIPNATECHIS--GHRPE-----AAS--REFQALQAGGIPMLISPRWELPFSEVID
rib-2	317	KGSQENCSLERR-N-QLIGSSVPG-----FILPSEMFFQDFHSSQLGCIPIIISNSQLPFPQDLDH
hTREX	478	WNEALNVEKPRVTEHFLRLSDSDLEHARRRCGRFELWETPTADSTFNTVTAMTRTH
hEXT2	358	WKRAVSVVPEEKMSDVYSILQSIQPRQTEEMQRCARWFWEAVFQSIKAKALATLQIENDRL
hEXT1	374	WNOANVIGDERLLQIPSTIRSIHQDKETRLQOQTOLNEARSSVEKIVLTHIEITQDRH
hEXTL1	313	WTKRAIVADERLPLQVLAALQEMSPARVRLRQQTQFIWDAFSSVEKVIHTTIEVLODRH
rib-2	377	WRRRTYRLRLARLPEAHFIVQFEISDIEHRAVGNLIFYETLADRHLLARSLAALRYKL

5/35

FOOTED" 02660860

FIG. 1D

hTREX	658	VPREQIVMMLT	VEREEVINSERLNGLE	VNVMNNSP	PLPSEDLLWEDI	GVIMVRTEK
hEXT2	451	POSQGTAVIVEI	KORVESFRVITEVSKVES	SKLLVMNNO	KNPEDSLWPKI	RVPLKAVRTAE
hEXT1	476	PPSKFTAVIHA	VTPLVSQSPV	KLVAAAKSQ	CAQIIVWNC	KPLPAKRWPA
hEXTL1	415	PEGR	ESALIW	VGPP	QOPP	KLIQAVAGSQHCAQILLASNE
hEXTL2	61	STMDSE	RLIMQI			RPLPS--RWPE--TAVPLTVIDGHR
rib-2	556	RQREQIVMMLT	VERDAVITGALERLHQL	VNVMNNSP	PLPSEDLLWEDI	GVIMVRTEK
hTREX	723	NSENNRRLPMNE	ETEA	ILSIDDI	AHTRHD	IMGERWREARD
hEXT2	517	NKESNRFRVDE	ETEA	VAI	DDI	IIMTSD
hEXT1	544	KVMSSRH	LDGNII	IDA	VSE	EDIV
hEXTL1	477	KV	SDR	YESTER	DA	ILSIDDI
hEXTL2	129	NRMRNRLOV	FPPE	ETNA	VIMV	DDI
rib-2	620	NNMNRH	IVMWR	ETEA	VES	DDI
hTREX	791	YS	--CPL	SMVL	GAARFH	--KQAMVYS
hEXT2	586	W	--TNEV	SMVL	GAARFH	--KQAMVYS
hEXT1	612	W	--TNDY	SMVL	GAARFH	--KQAMVYS
hEXTL1	544	R	--TNEF	SMVL	GAARFH	--KQAMVYS
hEXTL2	201	GSNGDQY	SMVL	GAARFH	--KQAMVYS	--KQAMVYS
rib-2	686	HT	--COM	SMVL	GAARFH	--KQAMVYS
hTREX	859	CRGG	--POAL			
hEXT2	654	CECTAIDGES	--LQO	THMVER	SE	ENKKA
hEXT1	680	ETMGQTSRAS	--RWAD	PDH	EA	QOS
hEXTL1	612	EAAPLAPCG	PGPRPKPP	--APAD	CIN	QI
hEXTL2	272	-LEKETNSGY	SGMWHRAE	HALQ	RSY	CIN
rib-2	754	CPTC	--TESLY	--KEG	TH	FEK

6/35

FIG. 1E-1

Human

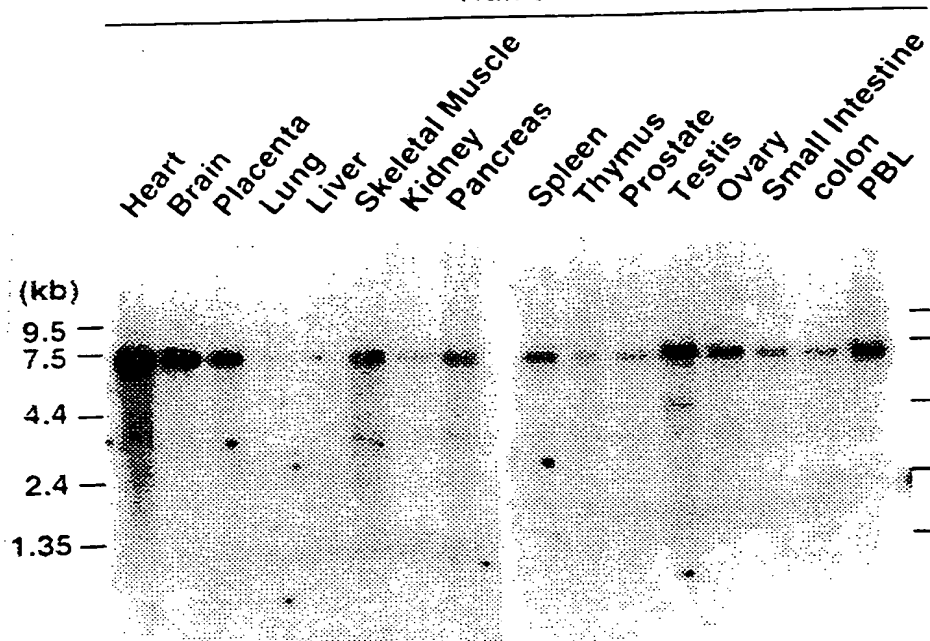


FIG. 1E-2

Mouse

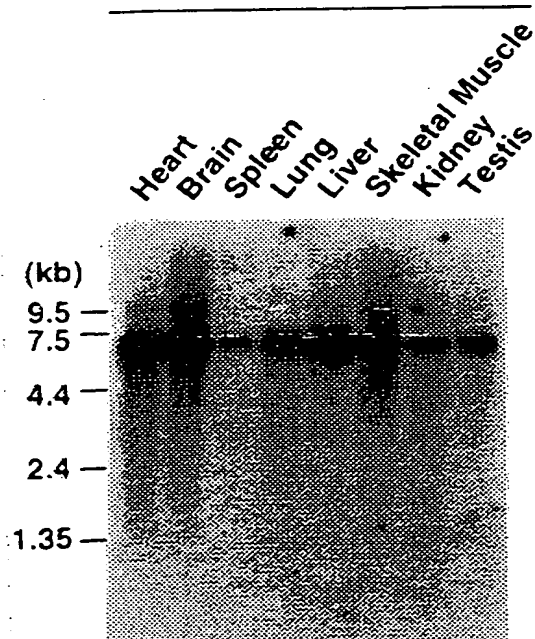
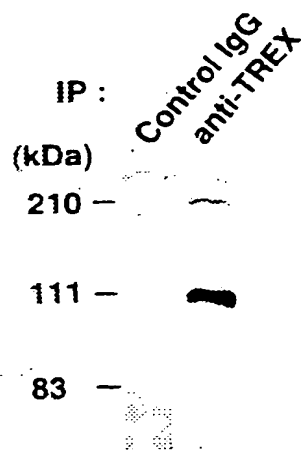


FIG. 1F



7/35

FIG. 2A *In vivo* binding

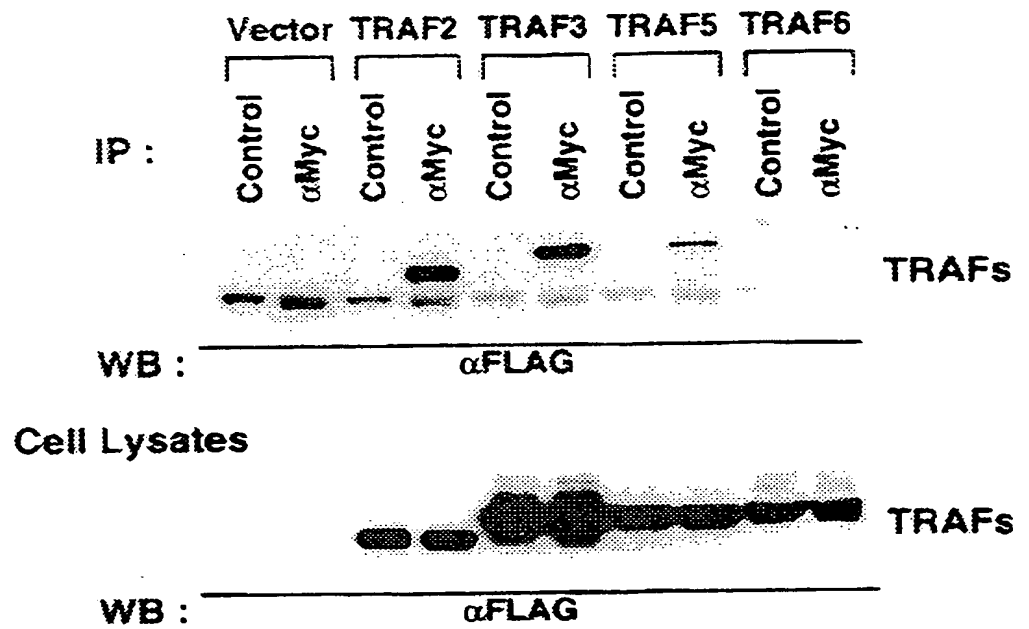
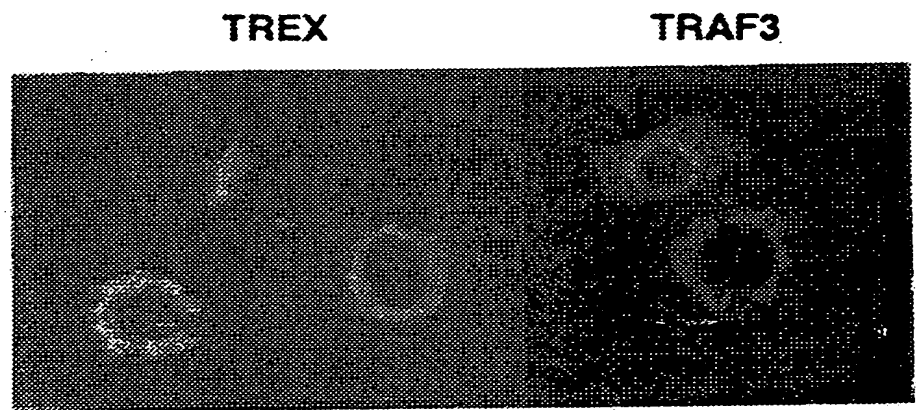


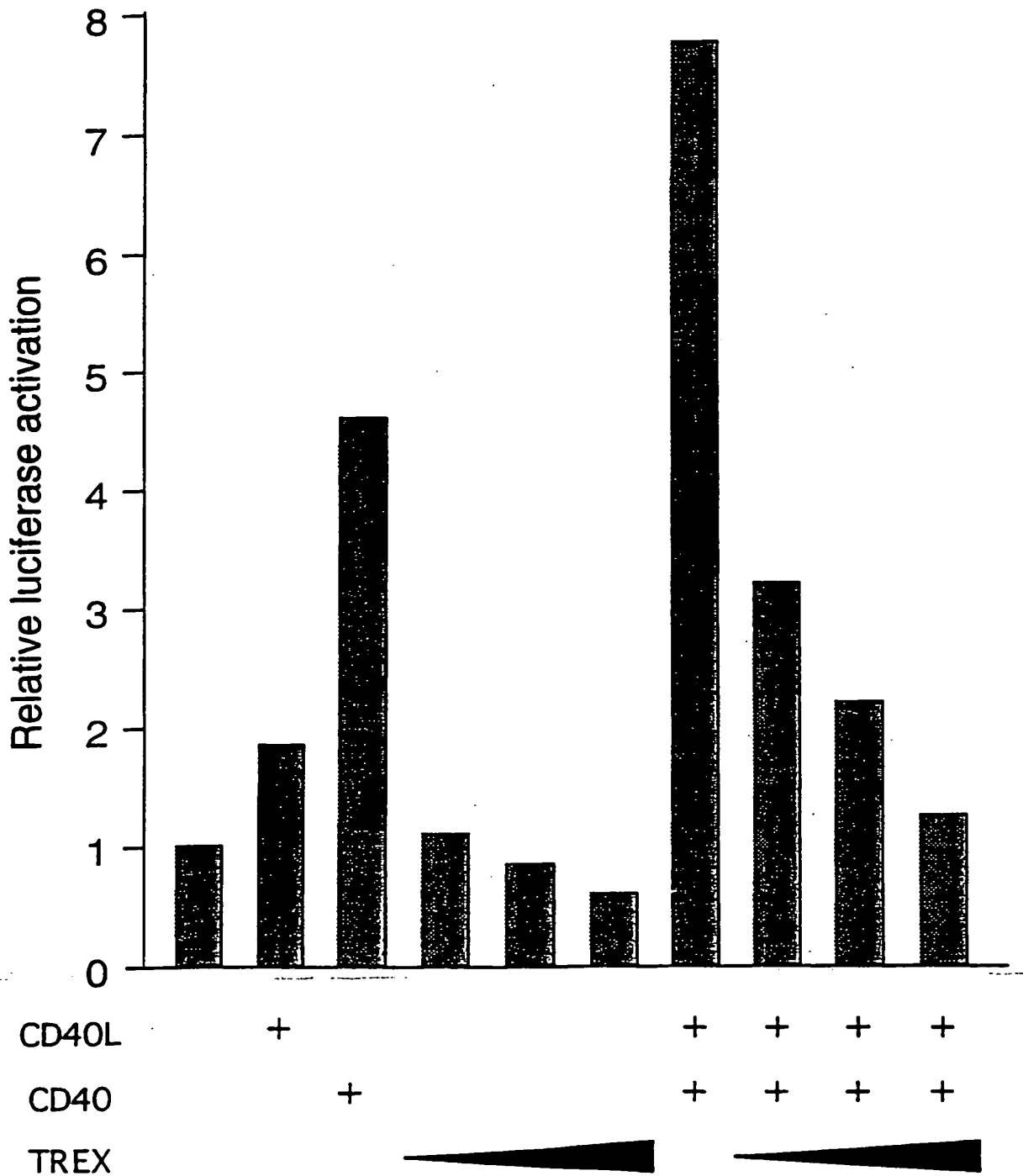
FIG. 2B



8/35

FIG. 3

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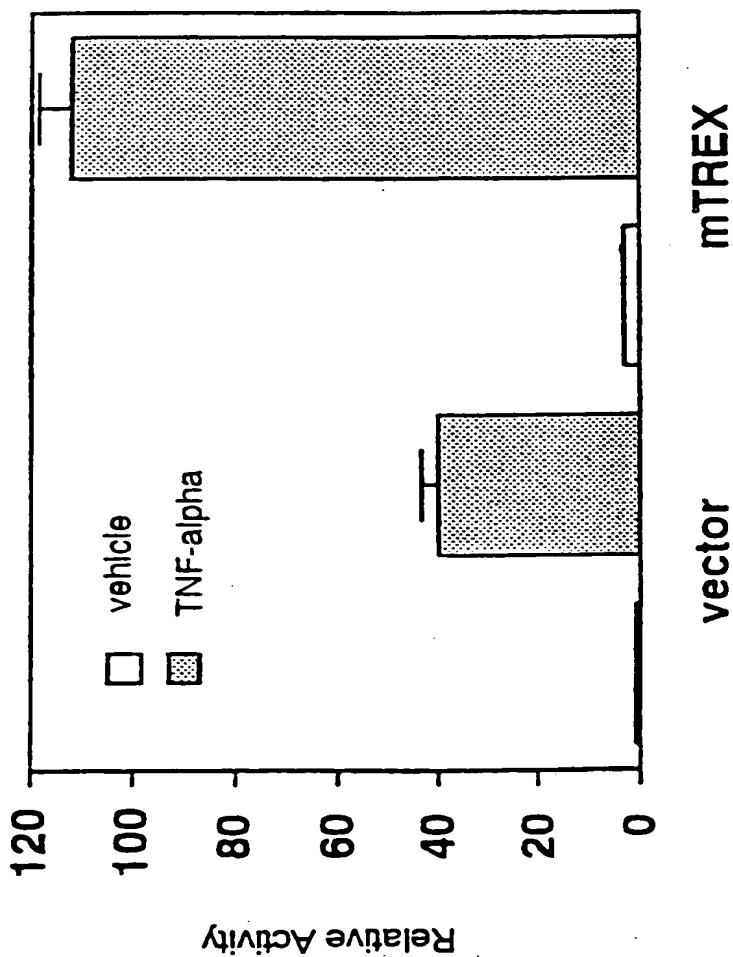


9/35

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FIG. 4

Effect of mTREX on TNF-alpha-induced  
NF-kappaB activation in HEK 293 cells



n=3 980707

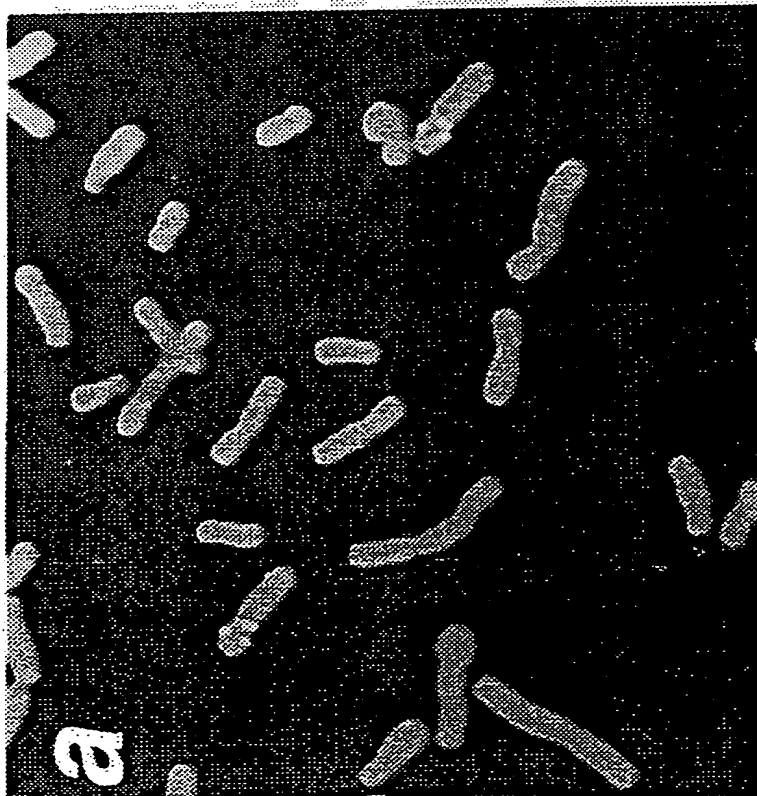
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

10/35

FIG. 5B



FIG. 5A

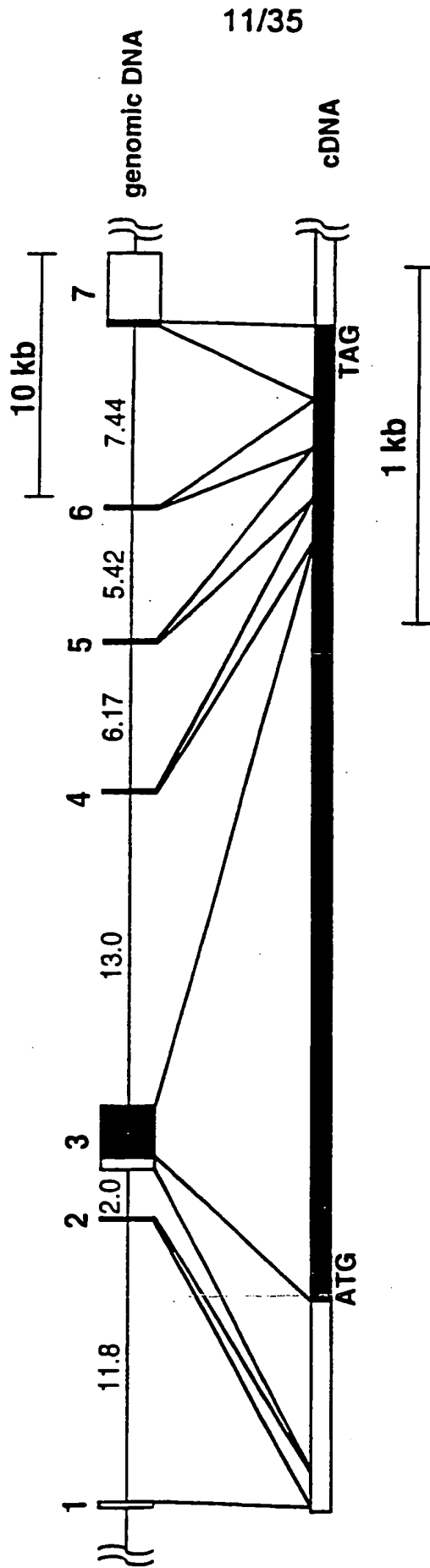


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BY	CLASS	SUBCLASS
DR. TS MAN		

FIG. 6



APPROVED	O.G. FIG.	
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12/35

FIG. 7A-1

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cctgatcggt	ggtagtggca	tggaggacgg	ggctggcatt	tcagactgcc	agctgttttt
accagccgct	gcatcacttg	aatagaagct	atgcatattg	gctggccgac	aaagccaagg
gacaaaagct	atggccgtta	aaatgggtccc	tctgagtcca	gggctctttc	cctggcctttt
agcaccatgg	atctcttctt	tttcatecca	tcagcaatgt	ggtaccttct	tctacttgat
gatgacagct	gatacttcag	atttgccctga	ctaaggtttag	aaacctgaat	cgctgtgagg
aagatgaaat	ttccatttta	cttgggtgcct	tgtgcaggga	gcacactgat	ccttccagaa
acttgtgtgt	gaaaagaggt	tgcgttttgt	cagacagact	catggttatg	gcgagcgatc
cgacgtgatc	agagtgggca	agaggcacag	cgaactcatg	acaggctata	ccatgttgcg
gaatggggga	gtggggaacg	gtgggtcagac	ctgtatgctg	cgctgggtcca	atcgcatccg
gctgacatgg	ctgagtttca	cgctgttcat	catcctcgtc	ttcttcccc	tcattgctca
ctattacctc	accactctgg	acgaggcaga	cgaggctggc	aagcgcatct	tcggccctcg
ggctggcagt	gagctctgtg	aggtaaagca	tgtccttgat	ctctgtcgga	ttcgtgagtc
tgtgagcgaa	gagcttctac	agctcgaagc	caagcggcag	gagctgaaca	gcgagattgc
caagctgaac	ctcaagattg	aagcctgtaa	gaagagcata	gagaatgcca	agcaggacct
gctgcagctc	aagaatgtca	ttagccagac	agagcactcc	tacaaggagc	tgatggccca
gaaccagccc	aaactgtccc	tgcccatccg	actgctccct	gagaaggacg	atgccggcct
tcaccccc	aaggtcactc	ggggttgccg	ccttcacaac	tgctttgatt	actctcgttg
tcctctgacg	tctggctttc	ccgtctacgt	ctatgacagt	gaccagtttg	cctttgggag
ctacctggac	cctttgggtca	agcaggcttt	tcagggtaca	gtgagagcca	acgtttatgt
tacagaaaat	gcggccatcg	cctgcctgta	tgtgggtgta	gtgggagaaa	tgcaagagcc
cactgtgctg	cggcctgccg	accttgaaaa	gcagctgttt	tctctgccac	actggaggac
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gtacaacgtc	agtacaggcc	gccatgtggc	ccagtccacc	ctctatgctg	cccagtacag
agctggcctt	gacctgggtcg	tgtcacccct	tgtccatgct	atgtctgaac	ccaacttcat
ggaaatccca	ccgcaggtgc	cagttaagcg	gaaatatctc	ttcactttcc	agggcgagaa
gatcgagtct	ctgagatcta	gccttcagga	ggcccgttcc	ttcgaggaag	agatggaggg
cgaccctccg	gccgactatg	acgatcgcac	cattgccacc	ctaaaggctg	tacaggacag

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13/35

FIG. 7A-2

caagctggat	caggtgctgg	tagaattcac	ttgcaaaaac	cagccgaagc	ctagcctgcc
gactgagtgg	gcactgtgtg	gggagcggga	agaccgcctg	gagttactga	agctctccac
cttcgccctc	atcatcactc	ccggggaccc	gcgcctgctc	atttcactctg	ggtgtgccac
gcggctcttc	gaggccctgg	aggtgggggc	cgtgccggtg	gtgctcgggg	agcaggtgca
gctcccgtac	cacgacatgc	tgcagtggaa	cgaggccgcc	ctggtggtgc	ccaagcctcg
cgtcacagag	gtccacttcc	tgttacgaag	tctttcagac	agtgatctgt	tggccatgag
gcggcaaggc	cgctttctct	gggagaccta	cttctccacc	gcagacagta	tttttaatac
cgtgctggcc	atgattagga	ctcgaattca	gatcccagct	gctcccatcc	gggaagaggt
agcggctgag	atcccccatc	gttcaggcaa	agcagctgga	actgacccca	acatggctga
caatggggac	ctggacctgg	ggccggtaga	gacagaacca	ccctatgcct	cacctaaata
cctccgcaat	ttcactctga	ctgtcacaga	ctgttaccgt	ggctggaact	ctgccccggg
acggttccat	ctttttcccc	acacacctt	tgatctctgtg	ttgcctctgt	aggccaaatt
cttgggtcca	gggactggat	ttcggcgat	cggtgggcgg	gctggggggt	ctggcaagga
gttccaggca	gcgctcggag	gcaatgtcca	gcggggagcag	ttcacagtgtg	tgtagtctgac
ctacgagcgg	gaggaagtgc	tcatgaactc	cctggagaga	ctcaacggcc	tcccctacct
gaacaaggta	gtggtggtgt	ggaactctcc	caagctgccc	tcggaggacc	ttttgtggcc
agacattggt	gtccccatca	tggctcgtccg	tactgagaag	aacagtttga	acaatcgggt
cttgcctctg	aatgagattg	agacagaggc	catactgtcc	atcgacgatg	atgctcacct
ccgccatgat	gaaatcatgt	ttgggtttttg	ggtgtggaga	gaagcacgtg	atcgcattgt
gggtttccct	ggccggtacc	atgctgtggga	catcccgcac	cagtcctggc	tctacaattc
caactactcc	tgtgagctgt	ccatggtgct	gacggggcgt	gccttctttc	acaagtatta
tgcctacctg	tattcttatg	tgatgcccc	ggccatccgg	gacatggtgg	acgagtacat
caactgtgag	gatatcgcca	tgaacttcc	tgtctcccac	atcacacgga	aaccccccat
caaggtgaca	tcaaggtgga	cttttcgatg	cccagggtgc	cctcaggccc	tgtcccatga
tgaactctcat	tttcacgagc	ggcacaagtg	tatcaacttt	tttgtcaagg	tgtacggcta
tatgcctctc	ttgtacacac	agttcagggt	ggactccgtg	ctcttcaaga	cccgcctgcc
ccatgacaag	accaagtgtc	tcaagttcat	ctagggcctt	gcagttctga	ggagacaatg
agcagagcga	gggggagtca	ccctcaaggt	tcccaaggtg	tcgaaggctc	tggggacat
ctgtcgggca	gggccaagac	cctttgctgg	gagaggcgag	aggaagagtg	gaaagggata
gctgtctttc	attttgaagt	cagccacact	gggcctggga	tcctggtcag	agactcaggn
cgtctgcaca	gggcactgac	tgatagcgaa	cactgaggac	tgttcataag	cccaggaca

APPROVED	O.G. FIG.	
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DRAFTER/SMAN		

14/35

FIG. 7B-1

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      10      20      30      40      50      60
cctgatcgttggttagtggtcatggaggacggggctggcatttcagactgccagctgttttt

      70      80      90     100     110     120
accagccgctgcatacacttgaatagaagctatgcataattggctggccgacaaagccaagg

      130     140     150     160     170     180
gacaaaagctatggccgttaaaatgggtccctctgagtcacagggtctttccctggctttt

      190     200     210     220     230     240
agcaccatggatctcttcccttttcatcccatcagcaatgtggtaccttcttctacttgat

      250     260     270     280     290     300
gatgacagctgatacttcagatttgctgactaagggttagaaacctgaatcgctgtgagg

      310     320     330     340     350     360
aagatgaaatttccattttacttgggtgccttgtgcagggagcacactgatccttcagaa

      370     380     390     400     410     420
acttgtgtgtgaaaagaggttgcgttttgtcagacagactcatggttatggcgagcgatc

      430     440     450     460     470     480
cgacgtgatcagagtgggcaagaggcacagcgaactcatgacaggctataccatgttgcg
                        M T G Y T M L R

      490     500     510     520     530     540
gaatgggggagtggggaacggtgggtcagacctgtatgctgcgctgggtccaatcgcatccg
N G G V G N G G Q T C M L R W S N R I R

      550     560     570     580     590     600
gctgacatggctgagtttcacgctgttcacatcctcgtcttcttcccccctcattgctca
L T W L S F T L F I I L V F F P L I A H

      610     620     630     640     650     660
ctattacctcaccactctggacgagggcagacgaggctggcaagcgcatcttcggccctcg
Y Y L T T L D E A D E A G K R I F G P R

      670     680     690     700     710     720
ggctggcagtgagctctgtgaggtaaagcatgtccttgatctctgtcggattcgtgagtc
A G S E L C E V K H V L D L C R I R E S

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APPROVED	O.G. FIG.	
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15/35  
FIG. 7B-2

730 740 750 760 770 780  
tgtgagcgaagagcttctacagctcgaagccaagcggcaggagctgaacagcgagattgc  
V S E E L L Q L E A K R Q E L N S E I A

790 800 810 820 830 840  
caagctgaacctcaagattgaagcctgtaagaagagcatagagaatgccaagcaggacct  
K L N L K I E A C K K S I E N A K Q D L

850 860 870 880 890 900  
gctgcagctcaagaatgtcattagccagacagagcactcctacaaggagctgatggccca  
L Q L K N V I S Q T E H S Y K E L M A Q

910 920 930 940 950 960  
gaaccagcccaaaactgtccctgccatccgactgtccctgagaaggacgatgccggcct  
N Q P K L S L P I R L L P E K D D A G L

970 980 990 1000 1010 1020  
tccaccccccaaggctcactcgggggttgccgccttcacaactgctttgattactctcgttg  
P P P K V T R G C R L H N C F D Y S R C

1030 1040 1050 1060 1070 1080  
tcctctgacgtctggctttcccgctctacgtctatgacagtgaccagtttgcccttgaggag  
P L T S G F P V Y V Y D S D Q F A F G S

1090 1100 1110 1120 1130 1140  
ctacctggacccttttggtcaagcaggcttttcaggctacagtgagagccaacgtttatgt  
Y L D P L V K Q A F Q A T V R A N V Y V

1150 1160 1170 1180 1190 1200  
tacagaaaatgcgggccatcgccctgcctgtatgtggtgttagtgggagaaatgcaagagcc  
T E N A A I A C L Y V V L V G E M Q E P

1210 1220 1230 1240 1250 1260  
cactgtgctgcggcctgccgaccttgaaaagcagctgttttctctgccacactggaggac  
T V L R P A D L E K Q L F S L P H W R T

1270 1280 1290 1300 1310 1320  
agatgggcacaaaccacgtcattatcaacctgtcccgggaagtcagacacacagaatctact  
D G H N H V I I N L S R K S D T Q N L L

1330 1340 1350 1360 1370 1380  
gtacaacgtcagtagcaggccgcatgtggcccagtcaccctctatgctgcccagtagag  
Y N V S T G R H V A Q S T L Y A A Q Y R

1390 1400 1410 1420 1430 1440  
agctggctttgacctggtcgtgtcaccccttgccatgctatgtctgaacccaacttcac  
A G F D L V V S P L V H A M S E P N F M

1450 1460 1470 1480 1490 1500  
ggaaaatcccaccgcagggtgccaggttaagcggaaatatctcttcactttccaggggcgagaa  
E I P P Q V P V K R K Y L F T F Q G E K

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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16/35

FIG. 7B-3

1510 1520 1530 1540 1550 1560  
 gatcgagtcctctgagatctagccttcaggaggcccgcttccttcgaggaagagatggaggg  
 I E S L R S S L Q E A R S F E E E M E G

1570 1580 1590 1600 1610 1620  
 cgaccctccggccgactatgacgatcgcatcattgccaccctaaaggctgtacaggacag  
 D P P A D Y D D R I I A T L K A V Q D S

1630 1640 1650 1660 1670 1680  
 caagctggatcaggtgctggtagaattcacttgcaaaaaccagccgaagccttagcctgcc  
 K L D Q V L V E F T C K N Q P K P S L P

1690 1700 1710 1720 1730 1740  
 gactgagtgggcactgtgtggggagcgggaagaccgcctggagttactgaagctctccac  
 T E W A L C G E R E D R L E L L K L S T

1750 1760 1770 1780 1790 1800  
 cttcgccctcatcatcactccccggggacccgcgcctgctcatttcattctgggtgtgccac  
 F A L I I T P G D P R L L I S S G C A T

1810 1820 1830 1840 1850 1860  
 gcgggctcttcgaggccctggaggtggggggccgtgccggtggtgctcggggagcaggtgca  
 R L F E A L E V G A V P V V L G E Q V Q

1870 1880 1890 1900 1910 1920  
 gctcccgctaccacgacatgctgcagtggaaacgaggccgcccctgggtggtgcccgaagcctcg  
 L P Y H D M L Q W N E A A L V V P K P R

1930 1940 1950 1960 1970 1980  
 cgtcacagaggtccacttccgtgttacgaagtctttcagacagtgatctgttggccatgag  
 V T E V H F L L R S L S D S D L L A M R

1990 2000 2010 2020 2030 2040  
 gcgggcaaggccgctttctctgaggagacctacttctccaccgcagacagtatttttaatac  
 R Q G R F L W E T Y F S T A D S I F N T

2050 2060 2070 2080 2090 2100  
 cgtgctggccatgattaggactcgaattcagatcccagctgctcccatccgggaagaggt  
 V L A M I R T R I Q I P A A P I R E E V

2110 2120 2130 2140 2150 2160  
 agcggctgagatcccccatcggttcaggcgaagcagctggaactgaccccaacatggctga  
 A A E I P H R S G K A A G T D P N M A D

2170 2180 2190 2200 2210 2220  
 caatggggacctggacctggggccggtagagacagaaccacccctatgcctcacctaaata  
 N G D L D L G P V E T E P P Y A S P K Y

2230 2240 2250 2260 2270 2280  
 cctccgcaatttcactctgactgtcacagactgttacgctgggctggaactctgccccggg  
 L R N F T L T V T D C Y R G W N S A P G

00809920-031601



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

17/35

FIG. 7B-4

2290 2300 2310 2320 2330 2340  
acggttccatctttttccccacacaccctttgatccctgtgttgcctctgaggccaaatt  
R F H L F P H T P F D P V L P S E A K F

2350 2360 2370 2380 2390 2400  
cttgggctcagggactggatttcggccgatcggcggggctgggggctctggcaagga  
L G S G T G F R P I G G G A G G S G K E

2410 2420 2430 2440 2450 2460  
gttccaggcagcgctcggaggcaatgtccagcgggagcagttcacagttgtgatgctgac  
F Q A A L G G N V Q R E Q F T V V M L T

2470 2480 2490 2500 2510 2520  
ctacgagcgggaggaagtgtcatgaactccctggagagactcaacggcctcccctacct  
Y E R E E V L M N S L E R L N G L P Y L

2530 2540 2550 2560 2570 2580  
gaacaaggtagtggtggtgtggaactctcccaagctgccctcggaggaccttttgtggcc  
N K V V V V W N S P K L P S E D L L W P

2590 2600 2610 2620 2630 2640  
agacattggtgtccccatcatggctcgtccgtactgagaagaacagtttgaacaatcggtt  
D I G V P I M V V R T E K N S L N N R F

2650 2660 2670 2680 2690 2700  
cttgccttggaatgagattgagacagaggccatactgtccatcgacgatgatgctcacct  
L P W N E I E T E A I L S I D D D A H L

2710 2720 2730 2740 2750 2760  
ccgccatgatgaaatcatgtttgggttttgggtgtggagagaagcacgtgatcgcatgtt  
R H D E I M F G F W V W R E A R D R I V

2770 2780 2790 2800 2810 2820  
gggtttccctggcgggtaccatgcgtgggacatcccgcaccagtcctggctctacaattc  
G F P G R Y H A W D I P H Q S W L Y N S

2830 2840 2850 2860 2870 2880  
caactactcctgtgagctgtccatgggtgctgacgggcgctgccttctttcacaagtatta  
N Y S C E L S M V L T G A A F F H K Y Y

2890 2900 2910 2920 2930 2940  
tgcctacctgtattcttatgtgatgccccaggccatccgggacatggtggacgagtacat  
A Y L Y S Y V M P Q A I R D M V D E Y I

2950 2960 2970 2980 2990 3000  
caactgtgaggatatcgccatgaacttccttgtctcccatcacacggaaaccccccat  
N C E D I A M N F L V S H I T R K P P I

3010 3020 3030 3040 3050 3060  
caaggtgacatcaagggtggacttttcgatgcccagggtgccctcaggccctgtcccatga  
K V T S R W T F R C P G C P Q A L S H D

09809920-031601



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

19/35

FIG. 8A-1

ggcggggtccc	tgagctggaa	gccggagagc	aagccctgga	ggttcactct	ttcaagaagt
cgtgtgctga	ggtgtaatgc	tacacaagtc	agaggaagga	agggtcctga	aacacatggc
ctgattgttg	gcaaaggcat	cataagaagc	tggcatttat	ttctgttcta	acctattact
gtataactgt	gaatagacac	tatgcatatt	tgttgggtcag	caaaaccaag	aaacaagagc
tatggcattt	gaaaaagtct	gtctgattcc	agggtgtttt	tcctgggttt	catcatcagg
tacctcctcc	ctttcatctc	agcaagaatg	tggcaccttt	tatcgtttga	taaagattaa
ggacatgttc	tttgggtcaac	agccagaact	taaaatctgc	tggaataggg	tcagagacca
tttcagctgc	agctgaggaa	aatgaaatgt	tcattttatt	tgggtgccttg	tctggggagc
acactaactc	ttctggaaac	gtgtcagtga	aacagagatc	gttttgtgga	atagcaaccc
atggttatgg	cgagtgacct	gacgtgatct	ggggggcagg	ctgcagagga	ctcatgacag
gctataccat	gctgcggaat	ggggggcgcg	ggaacggagg	tcagacctgc	atgctgcgct
ggtccaaccg	catccgcctc	acgtgggtca	gcttcacgct	ctttgtcatc	ctgggtctct
tcccgtcat	cgcccaactat	tacctacca	ctctggatga	ggctgatgag	gcaggcaagc
ggatttttgg	tccccgggtg	gggaacgagc	tgtgcgaggt	gaagcacgtg	ctggatctgt
gccgcacccg	ggagtcgggtg	agtgaagagc	tcctgcagct	ggaggccaag	cgccaagagc
tgaacagcga	gacgcgcaag	ctgaatctga	agatcgaagc	ctgtaagaag	agcattgaga
acgccaagca	ggacctgctc	cagctcaaga	atgtcatcag	ccagaccgag	cattcctaca
aggagctcat	ggcccagAAC	cagcccaagc	tgtccctgcc	catccgactg	ctcccagaga
aggacgatgc	cggcctccct	cccccgagg	ccactcgggg	ctgccggcta	cacaactgct
ttgattatlc	tcgttgccct	ctcacctctg	gcttcccggg	ctacgtctat	gacagtgacc
agtttgtctt	tggcagctac	ctggatccct	tgggtcaagca	ggcttttcag	gcgacagcac
gagctaacgt	ttatgttaca	gaaaatgcag	acatcgcttg	cctttacgtg	atactagtgg
gagagatgca	ggagcccgtg	gtgctgcggc	ctgctgagct	ggagaagcag	ttgtattccc
tgccacactg	gcggacggat	ggacacaacc	atgtcatcat	caatctgtca	cgtaagtcag
atacacagaa	ccttctctat	aacgtcagta	ctggccgtgc	catgggtggc	cagtccacct
tctacactgt	ccagtacaga	cctggctttg	acttggctcg	atcaccgctg	gtccatgcca
tgtctgagcc	caacttcatg	gaaatccac	cacaggtgcc	ggtgaagcgg	aaatatctct
tcaccttcca	gggcgagaag	attgagtctc	tgaggcttag	ccttcaggag	gcccgtcctc
tcgaagagga	aatggagggc	gaccctcccc	ccgactacga	tgaccggatc	attgccaccc
tgaaggcggt	gcaggacagc	aagctggatc	aggtcctggg	ggaattcacc	tgcaaaaacc

0309990 - 031601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

20/35

FIG. 8A-2

09309920 "031601

agcccaaacc	cagcctgccg	actgagtggg	cactgtgtgg	agagcgggag	gaccgcttgg
aattgctgaa	gctctccacc	ttcgccctca	tcattacccc	cggggaccct	cgcttggtta
tttctcttgg	gtgtgcaaca	cggctcttcg	aagccctgga	agtcggtgcc	gtcccgggtg
tgctggggga	gcaggtccag	cttccctacc	aggacatgct	gcagtgggaa	gaggcggccc
tggtggtgcc	aaagcctcgt	gttaccgagg	ttcatttcct	gctcagaagc	ctctccgata
gtgacctcct	ggctatgagg	cggcaaggcc	gctttctctg	ggagacttac	ttctccactg
ctgacagtat	ttttaatacc	gtgctggcta	tgattaggac	tcgcatccag	atcccagccg
ctcccatccg	ggaagaggcg	gcagctgaga	tccccaccg	ttcaggcaag	gcggttgga
ctgaccccaa	catggctgac	aacggggacc	tggacctggg	gccagtggag	acggagccgc
cctacgcctc	acccagatac	ctccgcaatt	tcactctgac	tgtcactgac	ttttaccgca
gctggaactg	tgctccaggg	cctttccatc	ttttccccc	cactcccttt	gaccctgtgt
tgccctcaga	ggccaaattc	ttgggctcag	ggactggctt	tcggcctatt	ggtggtggag
ctgggggttc	tggcaaggaa	tttcaggcag	cgcttgagg	caatgttccc	cgagagcagt
tcacggtggt	gatgttgact	tatgagcggg	aggaagtgct	tatgaactct	ttagagaggc
tgaatggcct	cccttacctg	aacaaggctc	tgttggtgtg	gaattctccc	aagctgccat
cagaggacct	tctgtggcct	gacattggcg	ttcccatcat	ggtggtccgt	actgagaaga
acagtttgaa	caaccgattc	ttaccctgga	atgaaattga	gacagaggcc	atcctgtcca
ttgatgacga	tgctcacctc	cgccatgacg	aaatcatggt	tgggttccgg	gtgtggagag
aagctcggga	ccgcacgtg	ggcttccctg	gccgttacca	cgcattgggac	atcccccatc
agtctgggct	ctacaactcc	aactactcct	gtgagctgtc	catggtgctg	acaggtgctg
ccttctttca	caagtattat	gcctacctgt	attcttatgt	gatgccccag	gccatccggg
acatggtgga	tgaatacatc	aactgtgagg	acattgccat	gaacttccct	gtctcccaca
tcactcggaa	gccccccatc	aaggtgacct	cacggtggac	attccgatgc	ccaggatgcc
ctcaggccct	gtctcatgat	gactcccact	tccacgagcg	gcacaagtgc	atcaacttct
tcgtgaagg	gtacggctac	atgccccctc	tgtacacgca	gttcaggggtg	gattctgtgc
tcttcaagac	acgcctgccc	catgacaaga	ccaagtgctt	caagttcatc	taggggcagc
gcacggtctg	gggaagagga	tgagcagagg	gaggaagatg	gctcccaagg	ttcctaggca
ttgcaggacc	ttgggcacat	ctgctgggtg	gtggcccaga	gcctctgctg	gaaggggcag
caggaggagt	ggaaggaaac	cgctgccttt	atcttgaagt	cagccacact	gggcctggag
ccctgggcgg	agtccccggg	gttccccaca	cagggcactg	actgatagct	tacactgagg
actgtggcga	ctctgcagag	tactcacac	cgttcgtacg	cccaggacag	ctggttcgtg
gtttttacat	tcaataacaa	ctattatgat	tatttaaaaa	gagaaagttt	cagatttgcc
attcaaggct	tatttatata	tatgtgtgtg	tatataaata	catgcacaca	cttgcataca

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

21/35

**FIG. 8A-3**

tatatatttt	tggctggggg	agtgtgagtt	ttgcctttct	aagggaggga	cgcgcaggc
tcctttgttc	tgtattctgg	cggagatggg	tcctggcctt	gtgtcactgg	cttatcctta
aagatcatct	cccatactcc	ccagcgccat	ctgtgtgcag	caaccagaaa	gggatgaact
tggccctctt	gcgggcctgg	acaaggctct	ttccttacc	tttctgttgc	cagtcagcaa
cctgtaactc	acattctctt	cccagtgaat	ccctgggagc	gcctgaccct	ggtgggctgt
tcagcttcct	gctgctgggg	ccagcgattt	ttgaggattt	atctttaggc	caggcttgcc
tccgtactta	tccctgctct	cccatttctc	tcttgtttga	gagagaatga	ggaagcaaag
agtgagaaag	aataggggct	gaagacgcca	ctcccagatg	gctctttcta	tcctgctctt
ctgttgaaac	acacgtgctg	tgggcctcag	gcgtttctga	agtgtctctt	cttggaattgg
acaggagatc	agcagcgtgc	acatctgctg	tggctctgaag	tggtttgag	gtcagcctcc
tctccctagt	gtagagcaag	ccagtgtcct	tcgaggaacc	cacccggctg	gccgggaagt
tttacagcaa	ggcgccctgcc	ttgggataat	tccttggtga	aattcacctt	ccccccgctt
ctgtctggag	ccccatactg	tgttatctgt	ggttttttga	cccctaattg	cagcttggtt
gtaggactcc	ccgaggtttg	gtatgtgcta	gaacaatagg	aggctgtgat	ttgtgtgta
agctcacatc	cagcctttga	atctaacggg	cattcacaac	ccgagttacc	actttccact
ccctgcttag	gattctgttc	cctgggtgga	aactgaaata	agctaatttt	ttgggtcacg
gtggcagtag	gggaacctag	gaggggtgta	gtggcatttg	tcagggattt	agcccatgac
gtgtttcttg	aaccctactt	tctggaagtg	gagttgactc	tggaagtttt	ctagcaactg
aaacaaaagct	caggtttgtc	ctggtcatgc	acatgcctta	agccagttcc	gtcttcccta
gaccttggca	tcctgtgctt	ctatttcttg	gaatacgttc	tcctctgacc	tgctgtacc
acgtgggtcc	tcttcaagta	ctgttttgaa	gctgggctct	tttgtgtagc	tcccacccac
ctgtagggct	agctcggtt	aagggaactc	tccccattgg	caaaccggac	ccggccgcgc
ccaggactgt	gtttccaaag	gttccccgcc	cccaaccca	gcacagcct	gtagctcccc
tgctgaggca	gtgtgggttat	gttcccagca	gtgggggtca	gacgcccttc	ctcagaactt
tctagtgtcc	ctctacctga	ctcctgactt	gtattccttt	tagcagtagc	cttcttcctt
cggggagcca	aagagtgtgg	tgtgtggcgc	tatatgtgtg	ctgctatttc	atctggtttc
ttttaatgtg	aggaactcac	atactgactt	cagtgggact	cggtgagccg	gggccgtctg
tgtggtggga	ccccctttag	cgggactcag	tgagctgggg	ccgtctgtgt	ggtggagcca
gggcctctcc	ctttagtggg	gccaggttgt	cgggccccga	atgtcactgg	tggatctaag
aagggtgag	tggcttgaca	ccaaaacatg	ccgcagggag	ggctgtggtg	ccggtgcttc
caacaaggac	agccctcctt	gaccctgaaa	ggaacactgg	cttgaaggac	tgcagacagg
ctctgagggg	cacgccctcc	tcagcgagag	gcagcaaggt	ggccacagtg	tacttggtca
ggtgcttctc	accacgggaa	agccgcgcag	ctgtgactcg	cttgagatgg	gaaagcggcg
ccacagacc	cgggtctcct	tggctgtctg	tgggcgcgcc	ctggccacct	tgtcctgggt
cgcagggtgc	aggagcgctt	cgttctctgg	gtggccggct	tgtgctcccg	gtttgggctg
tcttaccata	acaccgtccc	agggctctgc	agggcactgt	gagcgctggc	tccctgggca
gtgctcctcc	gtgtggactg	tgcctcaggc	cagggtcac	cagctggggt	cctgtccgga
aggatgggat	ctttctggga	gctgcgcggg	acagagtggg	gagctcctag	tttgtggggg
gaagctttga	tatccatgcc	acgtccatcc	acccacccc	tttctgtcac	gagcacaatg
gtcttacatt	ggatttttgt	aaaaaaataa	aaataaatgg	agactttaac	tc

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

22/35

FIG. 8B-1

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      10      20      30      40      50      60
ggcgggtccctgagctggaagccggagagcaagccctggaggttcactctttcaagaagt

      70      80      90     100     110     120
cgtgtgctgaggtgtaatgctacacaagtcagaggaaggaagggtcctgaaacacatggc

      130     140     150     160     170     180
ctgattgttggcaaaggcatcataagaagctggcatttatttctgttctaactattact

      190     200     210     220     230     240
gtataactgtgaatagacactatgcatatttgttggtcagcaaaaccaagaaacaagagc

      250     260     270     280     290     300
tatggcatttgaaaaagtctgtctgattccagggtgttttctctgggtttcatcatcagg

      310     320     330     340     350     360
tacctcctccctttcatctcagcaagaatgtggcaccttttatcgtttgataaagattaa

      370     380     390     400     410     420
ggacatgttcttttggtcaacagccagaacttaaaatctgctggaatagggtcagagacca

      430     440     450     460     470     480
tttcagctgcagctgaggaaaatgaaatgttcattttatttgggtgccttgtctggggagc

      490     500     510     520     530     540
acactaactcttcttggaacgtgtcagtgaaacagagatcgttttgtggaatagcaaccc

      550     560     570     580     590     600
atggttatggcgagtgacccgacgtgatctggggggcaggctgcagaggactcatgacag
                                     M T G

      610     620     630     640     650     660
gctataccatgctgcggaatgggggcgcggggaacggaggtcagacctgcatgctgcgct
Y T M L R N G G A G N G G Q T C M L R W

      670     680     690     700     710     720
ggccaaccgcatccgcctcacgtgggtcagcttcacgctctttgtcatcctggtcttct
S N R I R L T W L S F T L F V I L V F F

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09809920-031601

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

23/35

FIG. 8B-2

730 740 750 760 770 780  
tccccgtcatcgccccactattacctcaccactctggatgaggctgatgaggcaggcaagc  
P L I A H Y Y L T T L D E A D E A G K R

790 800 810 820 830 840  
ggatttttgggtccccgggtggggaacgagctgtgcgagggtgaagcacgtgctggatctgt  
I F G P R V G N E L C E V K H V L D L C

850 860 870 880 890 900  
gccgcatccgggagtcggtgagtgaaagagctcctgcagctggaggccaagcgccaagagc  
R I R E S V S E E L L Q L E A K R Q E L

910 920 930 940 950 960  
tgaacagcgagatcgccaagctgaatctgaagatcgaagcctgtaagaagagcattgaga  
N S E I A K L N L K I E A C K K S I E N

970 980 990 1000 1010 1020  
acgccaagcaggacctgctccagctcaagaatgtcatcagccagaccgagcattcctaca  
A K Q D L L Q L K N V I S Q T E H S Y K

1030 1040 1050 1060 1070 1080  
aggagctcatggcccagaaccagcccaagctgtccctgcccacccgactgctcccagaga  
E L M A Q N Q P K L S L P I R L L P E K

1090 1100 1110 1120 1130 1140  
aggacgatgccggcctccctccccgaaggccactcggggctgccggctacacaactgct  
D D A G L P P P K A T R G C R L H N C F

1150 1160 1170 1180 1190 1200  
ttgattattctcgttgccctctcacctctggcttcccgggtctacgtctatgacagtgacc  
D Y S R C P L T S G F P V Y V Y D S D Q

1210 1220 1230 1240 1250 1260  
agtttgcctttggcagctacctggatcccttggtcaagcaggcttttcaggcgacagcac  
F V F G S Y L D P L V K Q A F Q A T A R

1270 1280 1290 1300 1310 1320  
gagctaacgtttatgttacagaaaatgcagacatcgccctgcctttacgtgatactagtgg  
A N V Y V T E N A D I A C L Y V I L V G

1330 1340 1350 1360 1370 1380  
gagagatgcaggagcccgtgggtgctgcccctgctgagctggagaagcagttgtattccc  
E M Q E P V V L R P A E L E K Q L Y S L

1390 1400 1410 1420 1430 1440  
tgccacactggcgggacggatggacacaaccatgtcatcatcaatctgtcacgtaagtcag  
P H W R T D G H N H V I I N L S R K S D

1450 1460 1470 1480 1490 1500  
atacacagaaccttctctataacgtcagtaactggccgtgccatgggtggcccagtcacct  
T Q N L L Y N V S T G R A M V A Q S T F

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

24/35  
FIG. 8B-3

1510 1520 1530 1540 1550 1560  
tctacactgtccagttacagacctggttttgacttgggtcgatcacccgctgggtccatgcca  
Y T V Q Y R P G F D L V V S P L V H A M

1570 1580 1590 1600 1610 1620  
tgtctgagcccaacttcatggaaatcccaccacaggtgccggtgaagcggaaatatctct  
S E P N F M E I P P Q V P V K R K Y L F

1630 1640 1650 1660 1670 1680  
tcaccttccaggggcgagaagattgagttctctgaggtctagccttcaggaggcccgctcct  
T F Q G E K I E S L R S S L Q E A R S F

1690 1700 1710 1720 1730 1740  
tcgaagaggaaatggaggggcgaccttcccggcactacgatgaccggatcattgccaccc  
E E E M E G D P P A D Y D D R I I A T L

1750 1760 1770 1780 1790 1800  
tgaaggcgggtgcaggacagcaagctggatcaggtcctgggtggaattcacctgcaaaaacc  
K A V Q D S K L D Q V L V E F T C K N Q

1810 1820 1830 1840 1850 1860  
agcccaaaccagcctgcccagctgagtgggcactgtgtggagagcggggaggaccgcttgg  
P K P S L P T E W A L C G E R E D R L E

1870 1880 1890 1900 1910 1920  
aattgctgaagctctccaccttcgccctcatcattacccccggggaccctcgcttggtta  
L L K L S T F A L I I T P G D P R L V I

1930 1940 1950 1960 1970 1980  
tttctctgggtgtgcaacacgggtcttctgaagccctggaagtcgggtgccgtcccgggtgg  
S S G C A T R L F E A L E V G A V P V V

1990 2000 2010 2020 2030 2040  
tgctgggggagcaggtccagcttccctaccaggacatgctgcagtggaacgaggcggccc  
L G E Q V Q L P Y Q D M L Q W N E A A L

2050 2060 2070 2080 2090 2100  
tggtgggtgccaaagcctcgtgttaccgaggttcatttcctgctcagaagcctctccgata  
V V P K P R V T E V H F L L R S L S D S

2110 2120 2130 2140 2150 2160  
gtgacctcctggctatgaggcggcaaggccgctttctctgggagacttacttctccactg  
D L L A M R R Q G R F L W E T Y F S T A

2170 2180 2190 2200 2210 2220  
ctgacagtatttttaataaccgtgctggctatgattaggactcgcacccagatcccagccg  
D S I F N T V L A M I R T R I Q I P A A

2230 2240 2250 2260 2270 2280  
ctcccatccgggaagaggcggcagctgagatccccaccgttcaggcaaggcgggtggaa  
P I R E E A A A E I P H R S G K A A G T

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APPROVED	O.G. FIG.	
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25/35

FIG. 8B-4

2290 2300 2310 2320 2330 2340  
ctgaccccaacatggctgacaacggggacctggacctggggccagtggagacggagccgc  
D P N M A D N G D L D L G P V E T E P P

2350 2360 2370 2380 2390 2400  
cctacgcctcaccagatacctccgcaatttcactctgactgtcactgactttaccgca  
Y A S P R Y L R N F T L T V T D F Y R S

2410 2420 2430 2440 2450 2460  
gctggaactgtgctccagggcctttccatcttttccccacactcccttgaccctgtgt  
W N C A P G P F H L F P H T P F D P V L

2470 2480 2490 2500 2510 2520  
tgccctcagaggccaaattcttgggctcagggactggctttcggcctattgggtggagg  
P S E A K F L G S G T G F R P I G G G A

2530 2540 2550 2560 2570 2580  
ctgggggttctggcaaggaatttcaggcagcgcttgagggaatgttccccgagagcagt  
G G S G K E F Q A A L G G N V P R E Q F

2590 2600 2610 2620 2630 2640  
tcacgggtggtgatgttgacttatgagcgggaggaagtgttatgaactcttttagagaggc  
T V V M L T Y E R E E V L M N S L E R L

2650 2660 2670 2680 2690 2700  
tgaatggcctcccttacctgaacaaggtcgtggtggtgtggaattctcccaagctgccat  
N G L P Y L N K V V V V W N S P K L P S

2710 2720 2730 2740 2750 2760  
cagaggaccttctgtggcctgacattggcggttcccatcatgggtgggtccgtactgagaaga  
E D L L W P D I G V P I M V V R T E K N

2770 2780 2790 2800 2810 2820  
acagtttgaacaaccgattcttaccctggaatgaaattgagacagaggccatcctgtcca  
S L N N R F L P W N E I E T E A I L S I

2830 2840 2850 2860 2870 2880  
ttgatgacgatgctcacctccgcatgacgaaatcatgtttgggttccgggtgtggagag  
D D D A H L R H D E I M F G F R V W R E

2890 2900 2910 2920 2930 2940  
aagctcgggaccgcatcgtgggcttccctggccgttaccacgcatgggacatcccccatc  
A R D R I V G F P G R Y H A W D I P H Q

2950 2960 2970 2980 2990 3000  
agtcctggctctacaactccaactactcctgtgagctgtccatgggtgctgacaggtgctg  
S W L Y N S N Y S C E L S M V L T G A A

3010 3020 3030 3040 3050 3060  
ccttctttcacaagtattatgcctacctgtattcttatgtgatgccccaggccatccggg  
F F H K Y Y A Y L Y S Y V M P Q A I R D

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APPROVED	O.G. FIG.	
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26/35

FIG. 8B-5

3070 3080 3090 3100 3110 3120  
 acatggtggatgaatacatcaactgtgaggacattgccatgaacttccttgtctccaca  
 M V D E Y I N C E D I A M N F L V S H I

3130 3140 3150 3160 3170 3180  
 tcactcggaagcccccatcaaggtgacctcacggtggacattccgatgcccaggatgcc  
 T R K P P I K V T S R W T F R C P G C P

3190 3200 3210 3220 3230 3240  
 ctcaggccctgtctcatgatgactcccacttccacgagcggcacaagtgcacacttct  
 Q A L S H D D S H F H E R H K C I N F F

3250 3260 3270 3280 3290 3300  
 tcgtgaaggtgtacggctacatgccccctctgtacacgcagttcaggggtggattctgtgc  
 V K V Y G Y M P L L Y T Q F R V D S V L

3310 3320 3330 3340 3350 3360  
 tcttcaagacacgcctgccccatgacaagaccaagtgttcaagttcatctaggggcagc  
 F K T R L P H D K T K C F K F I \*

3370 3380 3390 3400 3410 3420  
 gcacggtctggggaagaggatgagcagagggaggaagatggctcccaaggttcctaggca

3430 3440 3450 3460 3470 3480  
 ttgcaggaccttgggcacatctgctggtgggtggcccagagcctctgctggaaggggcag

3490 3500 3510 3520 3530 3540  
 caggaggagtggaaggaaaccgctgcctttatcttgaagtcagccacactgggcctggag

3550 3560 3570 3580 3590 3600  
 ccctgggdcggagtccccggggttccccacacagggcactgactgatagcttacactgagg

3610 3620 3630 3640 3650 3660  
 actgtggcgactctgcagagtcactcacaccgttcgtacgcccaggacagctgggttcgtg

3670 3680 3690 3700 3710 3720  
 gtttttacattcaataacaactattatgattatttaaaaagagaaagtttcagatttgcc

3730 3740 3750 3760 3770 3780  
 attcaaggcttatttatatatatgtgtgtgtatataaatacatgcacacacttgcataca

3790 3800 3810 3820 3830 3840  
 tatatatattttggctgggggagtggtgagttttgcctttctaagggaggggaccgcgcaggc

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APPROVED	O.G. FIG.	
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29/35

# FIG. 8B-8

5410 5420 5430 5440 5450 5460  
tgtggtgggaccccccttttagcgggactcagtgaagctggggccgtctgtgtggtggagcca

5470 5480 5490 5500 5510 5520  
gggcctctcccttttagtgaggaccaggttgctcgggccccgaatgtcactggtggatctaag

5530 5540 5550 5560 5570 5580  
aagggtctgagtggctctgacacaaaaacatgccgcaggagggtgtggtgccggtgcttc

5590 5600 5610 5620 5630 5640  
caacaaggacagccctccttgaccctgaaaggaacactggcttgaaggactgcagacagg

5650 5660 5670 5680 5690 5700  
ctctgagggggcacgcccctcctcagcgagaggcagcaaggtggccacagtgtcactggtca

5710 5720 5730 5740 5750 5760  
ggtgcttctcaccacgggaaagccgacactgtgactcgcttgagatgggaaagcggcg

5770 5780 5790 5800 5810 5820  
ccacagacccccgggtctccttggtgtgtgtgggcccgcctggccaccttgctcctgggt

5830 5840 5850 5860 5870 5880  
cgcagggtgcaggagcgctcgttctctggtggccggcttgctgctccggtttgggctg

5890 5900 5910 5920 5930 5940  
tcttaccataaacaccgtcccagggtctgtcaggccactgtgagcgctgggtccctgggca

5950 5960 5970 5980 5990 6000  
gtgctcctccgtgtggactgtgcctcaggccagggtcaccagctggggctcctgtccgga

6010 6020 6030 6040 6050 6060  
aggatgggatctttctgggagctgcgcccggacagagtgggagctcctagtgttggggg

6070 6080 6090 6100 6110 6120  
gaagctttgatatccatgccacgtccatccacccccaccccttttcgtcacgagcacaatg

6130 6140 6150 6160 6170  
gtcttacattggatttttgtaaaaaaataaaaaataaatggagactttaactc

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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30/35

FIG. 9A

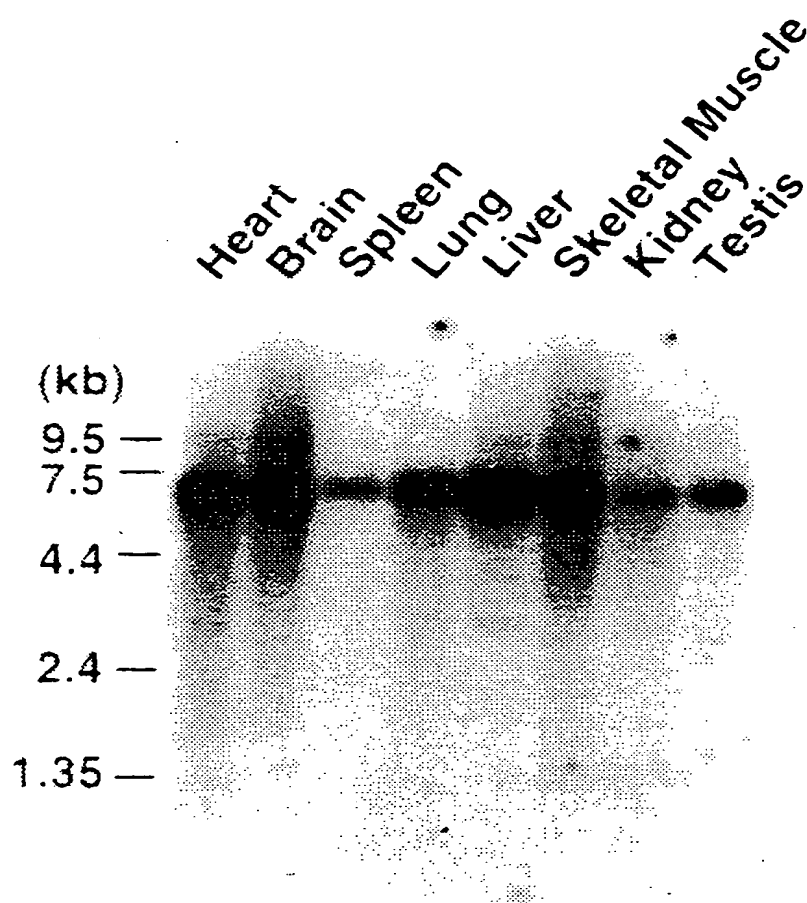
Murine TREX	1	MTGYTMLRNGGVGNGGQTCMLRWSNRIRLTWLSFTLFHLLVFFPLIAHYLLTTLDEADEA
Human TREX	1	MTGYTMLRNGGAGNGGQTCMLRWSNRIRLTWLSFTLFVILVFFPLIAHYLLTTLDEADEA
Murine TREX	61	GKRIFGPRAGSELCEVKHVLDLCRIRESVSEELLQLEAKROELNSEHAKLNLKHEACKKS
Human TREX	61	GKRIFGPRVGNELCEVKHVLDLCRIRESVSEELLQLEAKROELNSEHAKLNLKHEACKKS
Murine TREX	121	HENAKODLLQLKNVISQTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPMVTRGCR LH
Human TREX	121	HENAKODLLQLKNVISQTEHSYKELMAQNQPKLSLPIRLLPEKDDAGLPPPMATRGCR LH
Murine TREX	181	NCFDYSRCPLTSGFPVYVYDSDDQFAFGSYLDPLVKQAFQATVRANVYVTENAAIACLYVV
Human TREX	181	NCFDYSRCPLTSGFPVYVYDSDDQFMFGSYLDPLVKQAFQATVRANVYVTENADIACLYVI
Murine TREX	241	LVGEMQEPVILRPADLEKOLFSLPHWRTDGHNHVIINLSRKSDTONLLYNVSTGRH-VAQ
Human TREX	241	LVGEMQEPVILRPAELEKOLMSLPHWRTDGHNHVIINLSRKSDTONLLYNVSTGRAMVAQ
Murine TREX	300	STLYAAQYRAGFDLVVSPLVHAMSEPNFMEIPPOVPVKRKYLFTFQGEKIESLRSSLQEA
Human TREX	301	STFYIVDYRPGFDLVVSPLVHAMSEPNFMEIPPOVPVKRKYLFTFQGEKIESLRSSLQEA
Murine TREX	360	RSFEEEMEGDPPADYDDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSLPTEWALCGERED
Human TREX	361	RSFEEEMEGDPPADYDDRIIATLKAVQDSKLDQVLVEFTCKNQPKPSLPTEWALCGERED
Murine TREX	420	RLELLKLSTFALIITPGDPRLLISSGCATRLFEALEVGAVPVVLGEQVQLPYHDMLOWNE
Human TREX	421	RLELLKLSTFALIITPGDPRLLVISSGCATRLFEALEVGAVPVVLGEQVQLPYQDMLOWNE
Murine TREX	480	AALVVPKPRVTEVHFLRLSLSDSDLLAMRRQGRFLWETYFTTADSI FNTVLAMIRTRIOI
Human TREX	481	AALVVPKPRVTEVHFLRLSLSDSDLLAMRRQGRFLWETYFTTADSI FNTVLAMIRTRIOI
Murine TREX	540	PAAPIREEMAAEI PHRSGKAAGTDPNMADNGDLDLGPVETEPYPYASPKYLRNFTLTVTDC
Human TREX	541	PAAPIREEMAAEI PHRSGKAAGTDPNMADNGDLDLGPVETEPYPYASPKYLRNFTLTVTDF
Murine TREX	600	YRGWNSAPGPFHLPHTPFDVPLPSEAKFLGSGTGFRPIGGGAGGSGKEFQAALGGNVQR
Human TREX	601	YRSWNCAPGPFHLPHTPFDVPLPSEAKFLGSGTGFRPIGGGAGGSGKEFQAALGGNVPR
Murine TREX	660	EOFTVVMLTYEREEVLMNSLERLNLGPLYLNKVVVVWNSPKLPSEDLLWPDIGVPIINVVRT
Human TREX	661	EOFTVVMLTYEREEVLMNSLERLNLGPLYLNKVVVVWNSPKLPSEDLLWPDIGVPIINVVRT
Murine TREX	720	EKNSLNNRFLPWNEIETAILSIDDDAHLRHDEIMFGFWVWREARDRIVGFPGRYHAWDI
Human TREX	721	EKNSLNNRFLPWNEIETAILSIDDDAHLRHDEIMFGFRVWREARDRIVGFPGRYHAWDI
Murine TREX	780	PHQSWLYSNSYSCELSMVLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCEDIAMNPLV
Human TREX	781	PHQSWLYSNSYSCELSMVLTGAFFHKYYAYLYSYVMPQAIRDMVDEYINCEDIAMNPLV
Murine TREX	840	SHITRKPPPIKVTSRWTFRCPGCPQALSHDDSHFHERHKCINFFVKVYGYMPLLYTQFRVD
Human TREX	841	SHITRKPPPIKVTSRWTFRCPGCPQALSHDDSHFHERHKCINFFVKVYGYMPLLYTQFRVD
Murine TREX	900	SVLFPKTRLPHDKTKCFKFI
Human TREX	901	SVLFPKTRLPHDKTKCFKFI

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APPROVED	O.G. FIG.	
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31/35

FIG. 9B



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32/35

FIG. 10A

empty	+	+	-	-	+	+	+	+
EXTL3	-	-	+	+	-	-	-	-
TNF- $\alpha$	-	+	-	+	+	+	+	+
competitor	-	-	-	-	+	-	-	-
control Ab	-	-	-	-	-	+	-	-
anti p50 Ab	-	-	-	-	-	-	+	-
anti p65 Ab	-	-	-	-	-	-	-	+



FIG. 10B

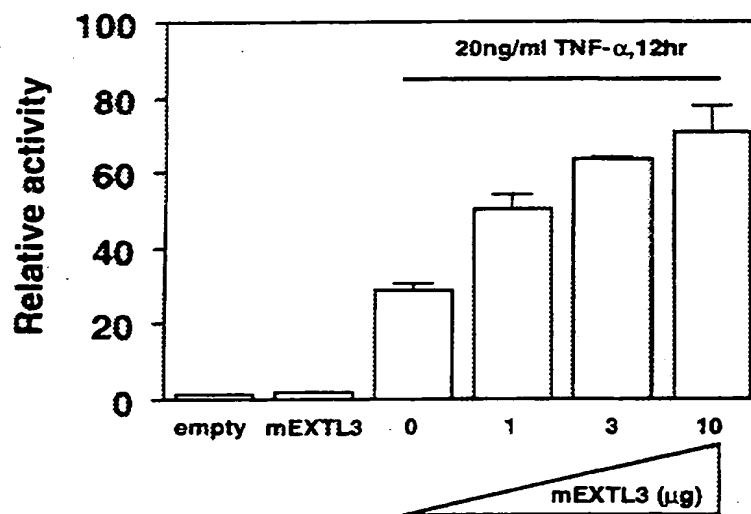
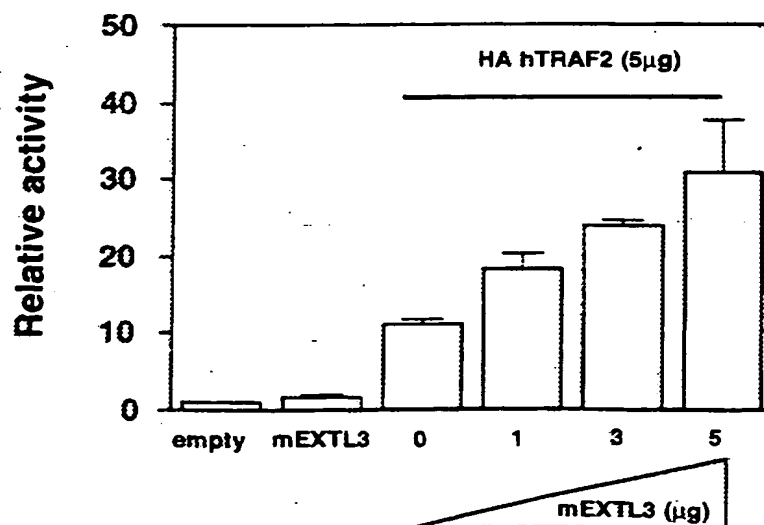


FIG. 10C



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33/35

FIG. 11A

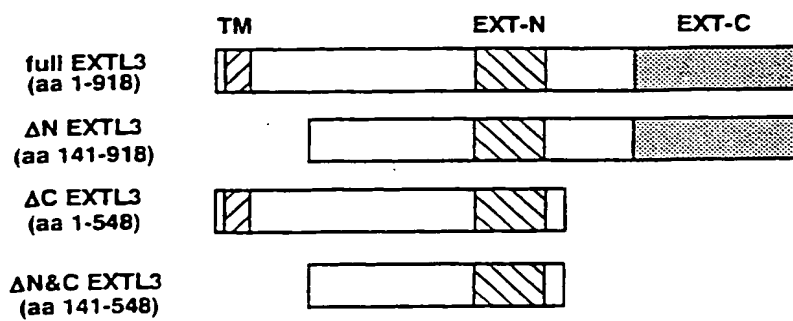


FIG. 11B

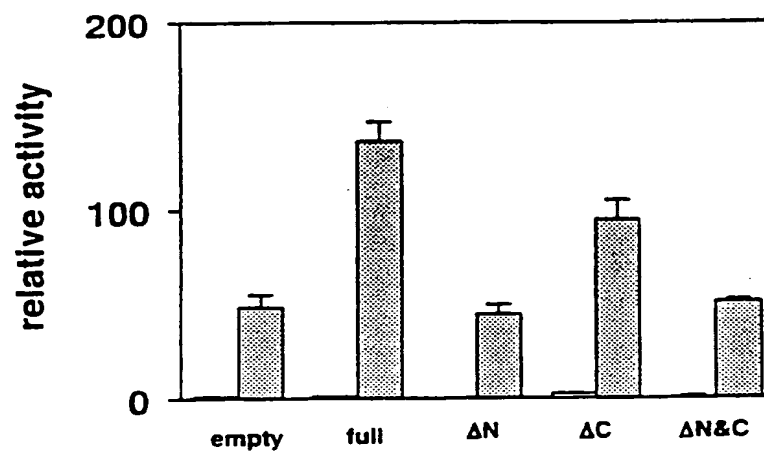
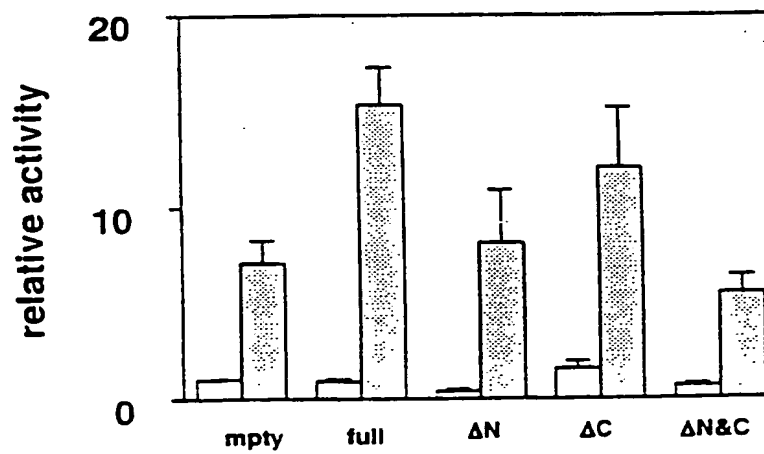


FIG. 11C



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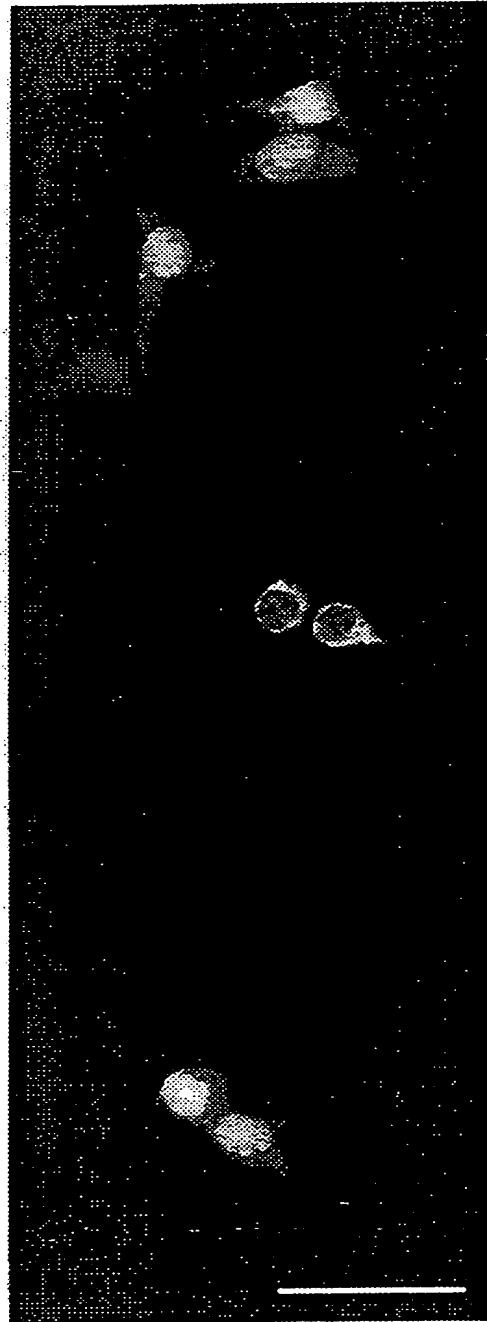
APPROVED	O.G. FIG.	
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DRAWN BY		

34/35

FIG. 11D-a

FIG. 11D-b

FIG. 11D-c



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APPROVED	O.G. FIG.	
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35/35

FIG. 12A

FIG. 12E

FIG. 12B

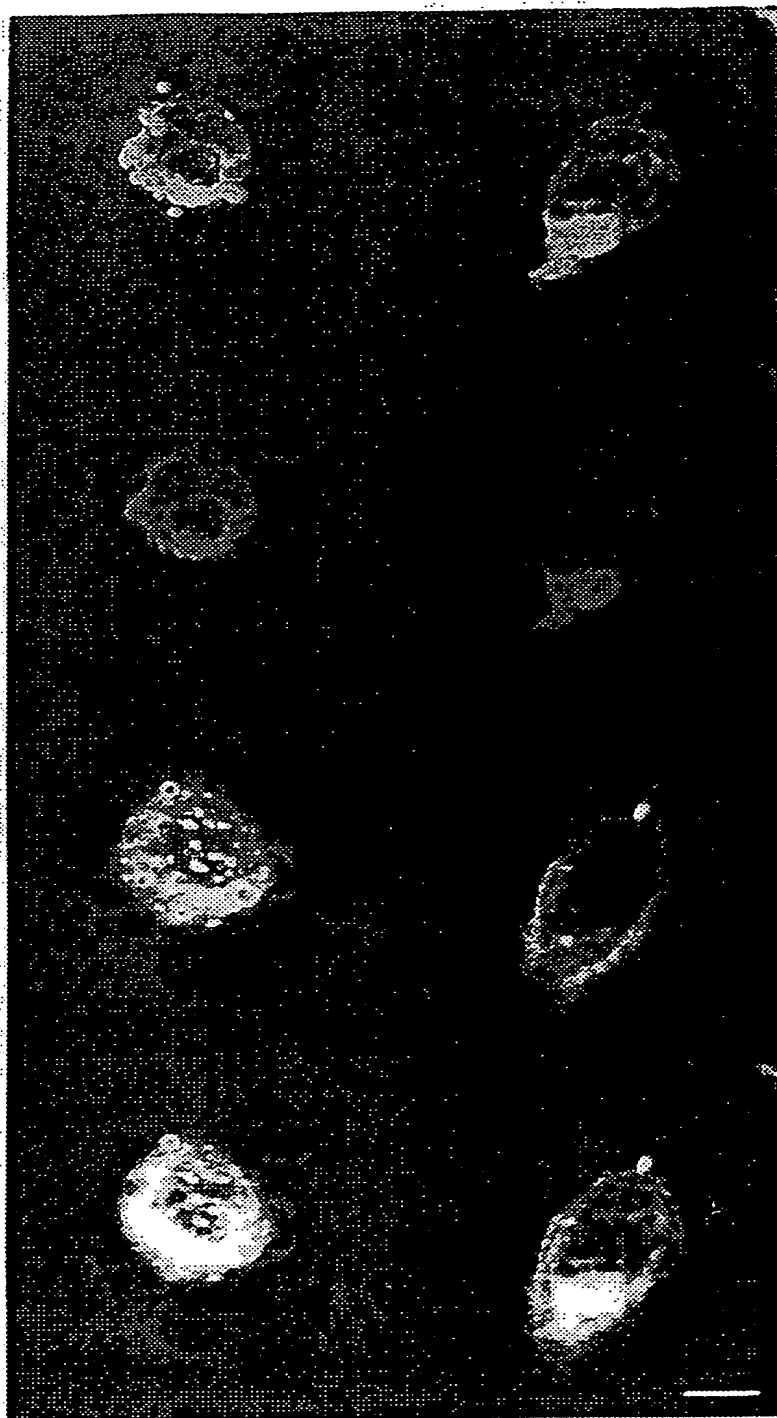
FIG. 12F

FIG. 12C

FIG. 12G

FIG. 12D

FIG. 12H



TESTED 02660860